



Standards *Actions*

Projects Initiated

The following DOE technical standards projects were recently initiated. If you are interested in participating in the development of these standards, please contact the persons listed below.

- *Integrating Safety and Health During Post-Operation Facility Activities*, Project Number SAFT-0060; Robert W. Barber, EH-32; 301-903-3477, Robert.Barber@hq.doe.gov.
- *Preparation Guide for Hazard Analysis Reports for Nuclear Explosive Operations*, Project Number SAFT-0061; Helmut Filacchione, DP-21; 301-903-7519, Helmut.Filacchione@dp.doe.gov.

Documents Recently Published

The following DOE documents have recently been published:

- DOE-STD-3014-96, *Accident Analysis for Aircraft Crash into Hazardous Facilities*, October 1996.

DOE employees and DOE contractors may obtain copies from the DOE Office of Scientific and Technical Information (OSTI), P.O. Box 62, Oak Ridge, Tennessee 37831; telephone 423-576-8401 or FAX 423-576-5728.

Subcontractors and the general public may obtain copies from the U.S. Department of Commerce, Technology Administration, National Technical Information Service, Springfield, Virginia 22161; telephone 703-487-4650 or FAX 703-321-8547.

The Technical Standards Program is sponsoring a project at OSTI to place *all* DOE technical standards (i.e., DOE Standards, Specifications, Handbooks, and Technical Standards Lists) on the Internet. To date, 110 DOE technical standards have been placed on the Internet at the address shown at the bottom of this page.

Non-Government Standards

American National Standards Institute

The American National Standards Institute (ANSI) publishes coordination activities of non-Government standards (NGS) biweekly in *ANSI Standards Action*. Please note that distribution of *ANSI Standards Action* is normally made only to individual members of ANSI or in group mailings to site members of ANSI. For information on site membership, ask your local ANSI contact. For information on individual or group ANSI membership, call Bethany Marks at 212-642-4948. For further information on distribution policies of ANSI publications, call the ANSI distribution manager at 212-642-4952.

Technical Standards Program Document Status as of 12/20/96

In Conversion	In Preparation	Out for Comment	Published in Past 30 Days
4	61	18	1

Total in  process = 79

Copies of *ANSI Standards Action* and ANSI-published documents may be obtained from ANSI, 11 West 42nd Street, New York, NY 10036 (212-642-4900, FAX 212-302-1286). Comments on listed draft standards may be submitted by contacting the standards developing organization for information.

The following listings are extracted from *ANSI Standards Action* and are representative of NGS development activities that may be relevant to DOE operations. Refer to *ANSI Standards Action* for a complete listing of changes and new publications, standards developing organizations, and additional information about submitting comments.

The following American National Standards are currently in coordination:

- ASME B18.3, *Socket Cap, Shoulder, and Set Screws (Inch Series)* (revision of ANSI/ASME B18.3-1986 (R1995)); comments due February 6, 1997.
- C18.1M, *Part 3, Dry Cells and Batteries - Specifications* (revision of ANSI C18.1M-1994); comments due February 6, 1997.
- C78.1378, *Electric Lamps - 250 Watt, M58 Single-Ended Metal Halide Lamps* (revision of ANSI C78.1378-1990); comments due February 6, 1997.



Visit the Technical Standards Program Web Site: <http://apollo.osti.gov/html/techstds/techstds.html>

- ICEA S-81-570-1996, *600-Volt Cables of Ruggedized Design* (new standard); comments due February 6, 1997.
- IEEE C62.37-1996, *Standard Test Specification for Thyristor Diode Surge Protective Devices* (new standard); comments due February 6, 1997.
- NEMA WC 61-1992, *Transfer Impedance Testing (Modified Mil-C-85485 Test Method)* (new standard); comments due February 6, 1997.
- UL 73, *Standard for Safety for Motor-Operated Appliances (revision of ANSI/UL 73-1992)*; comments due February 6, 1997.
- UL 498, *Standard for Safety for Attachment Plugs and Receptacles (revision of ANSI/UL 498-1993)*; comments due February 6, 1997.
- UL 1803, *Standard for Safety for Factory Follow-up on Third Party Certified Portable Fire Extinguishers* (new standard); comments due February 6, 1997.

The following newly published American National Standards are available from ANSI:

- ANSI Z223.1-1996, *National Fuel Gas Code*.
- ANSI/ALI ALOIM-1994, *Automotive Lifts - Safety Requirements for Operation, Inspection and Maintenance*.
- ANSI/AWWA C209-95, *Cold-Applied Tape Coatings for the Exterior of Special Sections, Connections, and Fittings for Steel Water Pipelines*.
- ANSI/IEEE C37.35-1995, *Guide for the Application, Installation, Operation, and Maintenance of High-Voltage Air Disconnecting and Interrupter Switches*.
- ANSI/ISA S67.14-1994, *Qualifications and Certification of Instrumentation and Control Technicians in Nuclear Facilities*.
- ANSI/ISO/IEC 10967-1-1994, *Information Technology - Language Independent Arithmetic - Part 1: Integer and Floating Point Arithmetic*.

The following international standards are currently in coordination (comment due dates follow each entry):

- 27/181/FDIS, IEC 519-11: *Safety in electroheat installations - Part 11: Particular requirements for installations for electromagnetic stirring, transport or pouring of metal liquids* - January 2, 1997.
- 31H/61/FDIS, IEC 1241-3 Ed.1: *Electrical apparatus for use in the presence of combustible dust - Part 3: Classification of areas where combustible dusts are or may be present* - January 2, 1997.
- 36B/158/FDIS, IEC 1466-1 Ed.1: *Composite string insulator units for overhead lines with a nominal voltage greater than 1000 V - Part 1: Standard strength classes and end fittings* - January 2, 1997.
- EN 60086-2: 1996/prA2: 1996, *Primary batteries - Part 2: Specification sheets (IEC 86-2: 1994/A2: 1996)* - February 4, 1997.

- ISO 1996-2: 1987/DAM 1, *Acoustics - Description and measurement of environmental noise - Part 2: Acquisition of data pertinent to land use - Amendment 1* - February 21, 1997.
- ISO/DIS 10442, *Petroleum and natural gas industries - Packaged, integrally geared centrifugal air compressors for general refinery service* - February 14, 1997.
- prEN 12618-2, *Products and systems for the protection and repair of concrete structures - Test methods - Determination of the adhesion of injection products, with or without thermal cycling - Part 2: Tensile bond method* - March 24, 1997.
- prEN 12644-2, *Cranes - Safety - Requirements for inspection and use - Part 2: Marking* - March 30, 1997.
- prEN 12649, *Concrete compactors and floating machines - Safety requirements* - March 30, 1997.
- prEN 45544-1: 1996, *Workplace atmospheres - Electrical apparatus used for the direct detection and direct concentration measurement of toxic gases and vapours - Part 1: General requirements and test methods* - February 4, 1997.
- prEN 50136-2-1: 1996, *Alarm systems - Alarm transmission systems and equipment - Part 2-1: General requirements for alarm transmission equipment* - February 4, 1997.
- prEN 50171: 1996, *Central power supply systems* - February 4, 1997.
- prEN 50172: 1996, *Emergency escape lighting systems* - February 4, 1997.
- prEN ISO 2801, *Clothing for protection against heat and flame - General recommendations for selection, care and use of protective clothing (ISO/DIS 2801: 1996)* - February 28, 1997.
- prEN ISO 9241-5, *Ergonomic requirements for office work with visual display terminals (VDTs) - Part 5: Workstation layout and postural requirements (ISO/DIS 9241-5: 1996)* (for information).
- prHD 21.1 S3: 1996, *Polyvinyl chloride insulated cables of rated voltages up to and including 450/750V - Part 1: General requirements (IEC 227-1: 1993, modified)* - February 4, 1997.
- prHD 384.4.444 S1: 1996, *Electrical installations of buildings Part 4: Protection for safety - Chapter 44: Protection against overvoltages - Section 444: Protection against electromagnetic interferences (EMI) in installations of buildings (IEC 364-4-444: 1996)* - February 4, 1997.
- prHD 630.2.1 S2: 1996, *Low-voltage fuses - Part 2-1: Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application) - Sections I to IV: Examples of types of standardized fuses for use by authorized persons (IEC 269-2-1: 1996, modified)* - February 4, 1997.

The following newly published international standards are available from ANSI:

- IEC 73: 1996, *Basic and safety principles for man-machine interface, marking and identification - Coding principles for indication devices and actuators.*
- IEC 79-20: 1996, *Electrical apparatus for explosive gas atmospheres - Part 20: Data for flammable gases and vapours, relating to the use of electrical apparatus.*
- IEC 269-2-1: 1996, *Low-voltage fuses - Part 2-1: Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application) - Sections I to V: Examples of types of standardized fuses for use by authorized persons.*
- IEC 695-6-30: 1996, *Fire hazard testing - Part 6: Guidance and test methods on the assessment of obscuration hazard of vision caused by smoke opacity from electrotechnical products involved in fires - Section 30: Small scale static method - Determination of smoke opacity - Description of the apparatus.*
- IEC 947-5-4: 1996, *Low-voltage switchgear and controlgear - Part 5: Control circuit devices and switching elements - Section 4: Methods of assessing the performance of low-energy contacts - Special tests.*
- IEC 1000-3-6: 1996, *Electromagnetic compatibility (EMC) - Part 3: Limits - Section 6: Assessment of emission limits for distorting loads in MV and HV power systems - Basic EMC publication.*
- ISO 3183-1: 1996, *Petroleum and natural gas industries - Steel pipe for pipelines - Technical delivery conditions - Part 1: Pipes of requirement class A.*
- ISO 11690-1: 1996, *Acoustics - Recommended practice for the design of low-noise workplaces containing machinery - Part 1: Noise control strategies.*

American Society for Testing and Materials

Standards activities of the American Society for Testing and Materials (ASTM) are published monthly in *ASTM Standardization News*. Orders for subscriptions or single copies of *ASTM Standardization News* may be submitted to ASTM, Subscription Dept.-SN, 100 Barr Harbor Drive, West Conshohocken, Pennsylvania 19428-2959. For information regarding ASTM membership, contact the Membership Services Department at 610-832-9691 (FAX 610-832-9667). ASTM publications may be ordered from the ASTM Customer Services Department at 610-832-9585 (FAX 610-832-9555). Comments on listed draft standards may be submitted by contacting the ASTM Standards Coordination Department at the above address. Questions may be addressed to the Technical Committee Operations Division at 610-832-9672 (FAX 610-832-9666). ASTM is developing a World Wide Web home page. The current version can be visited at <http://www.astm.org>. The following listings are extracted from *ASTM Standardization News* and are representative of NGS development activities that may be relevant to DOE operations.

The following ASTM standards are currently in coordination: (the due date for all items is January 10, 1997).

- New Standard, *Test Method for Nanosecond Event Detection for Electrical Contacts and Connectors* (Ref. Z6175Z).
- New Standard, *Specification for Edge Sealants for Structurally Glazed Insulating Glass Units* (Ref. Z5409Z).

The following newly published standards are available from ASTM:

- A 249/A 249M-96a, *Specification for Welded Austenitic Steel Boiler, Superheater, Heat-Exchanger, and Condenser Tubes* (revised standard).
- A 414/A 414M-96, *Specification for Steel, Sheet, Carbon, for Pressure Vessels* (revised standard).
- C 71-96a, *Terminology Relating to Refractories* (revised standard).
- C 315-96, *Specification for Clay Flue Linings*, (revised standard).
- C 634-96, *Terminology Relating to Environmental Acoustics* (revised standard).
- C 1009-96, *Guide for Establishing a Quality Assurance Program for Analytical Chemistry Laboratories Within the Nuclear Industry* (revised standard).
- D 1989-96, *Test Method for Gross Calorific Value of Coal and Coke by Microprocessor Controlled Iso-peribol Calorimeters* (revised standard).
- D 5878-95, *Guide for Using Rock-Mass Classification Systems for Engineering Purposes* (new standard).
- D 5949-96, *Test Method for Pour Point of Petroleum Products (Automatic Pressure Pulsing Method)* (new standard).
- D 5996-96, *Test Method for Measuring Anionic Contaminants in High Purity Water by On-Line Ion Chromatography* (new standard).
- E 170-96, *Terminology Relating to Radiation Measurements and Dosimetry* (revised standard).
- E 456-96, *Terminology Relating to Quality and Statistics* (revised standard).
- E 944-96, *Guide for Application of Neutron Spectrum Adjustment Methods in Reactor Surveillance, (IIa)* (revised standard).
- E 988-96, *Temperature-Electromotive Force (EMF) Tables for Tungsten-Rhenium Thermocouples* (revised standard).
- E 10006-96, *Practice for Analysis and Interpretation of Physics Dosimetry Results for Test Reactors, E 706(II)* (revised standard).
- G 142-96, *Test Method for Determination of Susceptibility of Metals to Embrittlement in Hydrogen Containing Environments at High Pressure, High Temperature, or Both* (new standard).

American National Standards Projects Initiated

The following is a list of proposed new American National Standards or revisions to existing American National Standards submitted to ANSI by accredited standards developers. DOE employees or contractors interested in participating in these activities should contact the appropriate standards developing organization. DOE-TSL-4 lists the DOE representatives on NGS committees. If no DOE representative is listed, contact the TSPO for information on participating in NGS activities.

American Society of Mechanical Engineers

Office: 345 East 47th Street
New York, NY 10017

Contact: **Brian Biddinger**

- ASME B89.5, *Definitions of General Metrology Terms* (new standard).

American Society for Testing and Materials

Office: 100 Barr Harbor Drive
West Conshohocken, PA 19428-2959

Contact: **Katherine Morgan**

- ASTM Z4175Z, *Test Method for Measurement of Acute Lethality from Products of Thermal Decomposition/Combustion of Specimens* (new standard).

Contact: **Stephen Mawn**

- ASTM Z6557Z, *Method for General Requirements for Bodies Operation Assessment and Certification/Registration of Quality Systems* (new standard).

Underwriters Laboratories, Inc.

Office: 1655 Scott Boulevard
Santa Clara, CA 95050

Contact: **Derrick Martin**

- UL 977, *Standard for Safety for Fused Power-Circuit Devices* (new standard).

Comments or Questions

If you have any questions or comments, please contact Rick Serbu (EH-31), Manager, DOE Technical Standards Program Office (TSPO), phone 301-903-2856, FAX 301-903-6172, Email Richard.Serbu@eh.doe.gov. Questions or comments may also be referred to Don Spellman, c/o Performance Assurance Project Office, Oak Ridge National Laboratory, P.O. Box 2009, Oak Ridge, Tennessee 37831-8065, phone 423-574-7891, FAX 423-574-0382, Email spellmandj@ornl.gov.

The TSPO would like to be kept informed of the status of technical standards that are being prepared or coordinated for DOE. Please provide this information to the TSPO at 423-574-7886, Email lj8@ornl.gov.



Standards *Actions*

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